

WHAT IS CLAIMED IS:

1. A shaft for a roller wheel which rotatably supports a roller outward fitted between both end portions in a state in which both end portions are fixed, and receives a load in a diametrical direction via the roller, wherein a recess portion is provided on a side to which the load is not applied, on an outer peripheral surface corresponding to said roller.

2. A shaft for a roller wheel as claimed in claim 1, wherein said load applying direction is a vertical direction, and a cross sectional shape of the shaft in said recess portion is formed in a shape which is constituted by an upper circular arc portion on an upper side, a lower circular arc portion on a lower side, and a vertical connection portion passing through the shaft axis and connecting the upper circular arc portion to the lower circular arc portion.

3. A shaft for a roller wheel as claimed in claim 2, wherein said shaft cross sectional shape is vertically symmetrical with respect to the shaft axis.

4. A shaft for a roller wheel as claimed in any one of claims 1 to 3, wherein a peripheral length of said recess portion is smaller on the end portion side in the axial direction than in the center portion in the axial direction.